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Municipality/Organization: Orleans, MA

EPA NPDES Permit Number: MAR041146

MADEP Transmittal Number: W-035744

IMAY 0 5 2005

Annual Report Number
& Reporting Period: No. 1: March 03-March 04

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert L. Bersin, P.E.

Title: Manager, Highway Department

Telephone #: 508-240-3790

Email: rbersin@town.orleans.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Oelf, Kl	
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Printed Name: John F. Kelly	
Title: Town Administrator	
Date: April 6, 2005	

Part II. Self-Assessment

permit conditions, except for the following provisions: The Town of Orleans has completed the required self-assessment and have determined that our municipality is in compliance with all

Part II.F

Failed to submit annual report on or before May 1, 2004.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

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ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 1	Planned Activities - Permit Year 2
				(Reliance on non-municipal partners indicated, if any)	
A.1	Develop and Broadcast	Robert L. Bersin, P.E.,	One per year – in	No progress	County Group to produce 60 second
-	Via PA CATV Storm Water Video	Highway Manager	conjunction with		radio broadcast in lieu of CATV
Revised					
A.2	Household Hazardous	Robert L. Bersin, P.E.,	Annual HHW	Collection day held September 18,	Annual collection day
	Waste Control	Highway Manager	Collection	2004	,
Revised					
A.3	Education Flyers	Robert L. Bersin, P.E., Highway Manager	Distribute 2 per year at Transfer Station	Flyers distributed at Transfer Station	Continue flyer distribution
Revised					
A.4	Web Page Information	Robert L. Bersin, P.E. & Peter VanDyck, IT Coordinator	Short Article – one per year	Highway Department web page not yet fully developed by Town.	Continue development of web page. Once developed, provide short annual article.
Revised					
Revised					

	1a. A	Revised	Revised	A.4	Revised	A.3	Revised	A.2	Revised	1 1 1 1 1 1 1
	1a. Additions			Web Page Information		Education Flyers		Household Hazardous Waste Control		Via PA CATV Storm Water Video
				Robert L. Bersin, P.E. & Peter VanDyck, IT Coordinator		Robert L. Bersin, P.E., Highway Manager		Robert L. Bersin, P.E., Highway Manager		Highway Manager
				Short Article – one per year		Distribute 2 per year at Transfer Station		Annual HHW Collection		conjunction with County Group
				Highway Department web page not yet fully developed by Town.		Flyers distributed at Transfer Station		Collection day held September 18, 2004		
				Continue development of web page. Once developed, provide short annual article.		Continue flyer distribution		Annual collection day		radio broadcast in lieu of CATV broadcast

2. Public Involvement and Participation

Revised	Revised	Revised	Revised	Revised		B.1 N	BMP I
					Estuaries Program	Water Quality Monitoring Program	BMP Description
					Director of Planning and Development	Water Quality Task Force	Responsible Dept./Person Name
					Ongoing for past 2 years of 3 year study	Ongoing for past ten years	Measurable Goal(s)
					Ongoing sampling and study.	Water quality monitoring has been performed over the year. Task force meets once per month.	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)
					Anticipate water quality reports for all town estuaries by middle of 2006.	Continue monitoring water quality	Planned Activities – Permit Year 2

3. Illicit Discharge Detection and Elimination

Ongoing, as database is also in development stage. Two illicit connections have been identified and
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has been included in the database.
complete: work on database is ongoing – approximately 25% of data
Mapping by Americorps volunteers is
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(Reliance on non-municipal partners
Permit Year 1

		3a. Additions
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4. Construction Site Stormwater Runoff Control

Revised	Revised	Revised	Revised	D.2	Revised	D.1	BMP ID#
				Propose amendments and articles at Town Meeting		Review Existing By- Laws	BMP Description
				Director of Planning and Development		Director of Planning and Development	Responsible Dept./Person Name
				Spring 06		Review existing by- laws and adopt construction ordinance FY 06	Measurable Goal(s)
				Drafted ordinance.		Drafted ordinance for control of construction-related stormwater runoff.	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)
				Anticipate adoption of ordinance by selectmen by the end of the 2004 calendar year.		Anticipate adoption of ordinance by selectmen by the end of the 2004 calendar year.	Planned Activities – Permit Year 2

5. Post-Construction Stormwater Management in New Development and Redevelopment

					Revised
					Revised
					Revised
			Planning and Development		
2000.			Director of	Meeting	
Prepare for Town Meeting in Spring	No progress.	Spring 06	George	Propose amendments	E.2
					Revised
TOWN THOUSAND IN Spring 2000.		1 100	Development		
construction projects. Prepare for Town Meeting in Spring 2006		Control Ordinance FY06	Director of		
prevent runoff and erosion after		laws and adopt Runoff	Meservey,	Laws	
Develop runoff control ordinance to	No progress.	Review existing by-	George	Review Existing By-	E.1
	(Reliance on non-municipal partners indicated, if any)		Name		
Permit Year 2	Permit Year 1		Dept./Person		ID#
Planned Activities -	Progress on Goal(s) -	Measurable Goal(s)	Responsible	BMP Description	BMP

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6. Pollution Prevention and Good Housekeeping in Municipal Operations

Revised	F.4	Revised	F.3	Revised	F.2	Revised	Ŧ.	BMP ID#
	Propose Amendments and Articles at Town Meeting		Develop Drainage System Improvement Plan		Catch Basin Cleaning		Street Sweeping	BMP Description
	Robert L. Bersin, P.E., Highway Manager		Robert L. Bersin, P.E., Highway Manager		Robert L. Bersin, P.E., Highway Manager		Robert L. Bersin, P.E., Highway Manager	Responsible Dept./Person Name
	Spring 06		Prepare Capital Plan Article for FY06		Clean all basins in town on yearly rotating schedule		Annual winter cleanup and as-necessary	Measurable Goal(s)
	No progress.		Ongoing. \$2.5-million article is currently being developed.		All basins received an annual cleaning. 250 tons of catch basin cleanings were collected during FY04.		All streets were swept at least once, many more than once during the year. 894 tons of sand were collected during FY04.	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)
	Prepare for Town Meeting in Spring 2006.		Continue preparation for FY06.		Annual catch basin cleaning		Annual street sweeping	Planned Activities – Permit Year 2

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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable>>

Revised	Revised	Revised	Revised	Revised	Revised	ID#
						BMP Description
						Responsible Dept./Person Name
						Measurable Goal(s)
						Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)
						Planned Activities – Permit Year 2
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7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

No storm water sampling has been completed.

Beach monitoring performed by Town of Orleans Health Department. Current storm water assessment of Town Cove watershed will recommend sampling protocol.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

	Annual program budget/expenditures (Stormwater management position created/staffed (
	(\$)	(y/n)

Education, Involvement, and Training

(y/n)	School curricula implemented
(tons or gal)	 material collected
(%)	 community participation
(#)	 days sponsored
	Household Hazardous Waste Collection Days
(y/n or mi.)	Shoreline clean-up participation or quantity of shoreline miles cleaned
(# or y/n)	Stream teams established or supported
(y/n)	Stormwater management committee established
(# or %)	Estimated number of residents reached by education program(s)

Legal/Regulatory

Post-Development Stormwater Management	 Erosion & Sediment Control 	 Illicit Discharge Detection & Elimination 	Accompanying Regulation Status (indicate with "X")	 Post-Development Stormwater Management 	 Erosion & Sediment Control 	 Illicit Discharge Detection & Elimination 	Regulatory Mechanism Status (indicate with "X")			
		-						Phase II	Prior to	In Place
								Review	Under	
								Drafted		
								Adopted		

Mapping and Illicit Discharges

(%) (#) (%) (%) (%) (%) (# or %) (#) (#) (est. gpd) (%)		% of population on septic systems	% of population on sewer		Illicit connections removed	Illicit discharges identified	Outfalls inspected/screened	• GIS	• CADD	 Paper/Mylar 	Mapping method(s)	System-Wide mapping complete	Estimated or actual number of outfalls	Outfall mapping complete
		(%)	(%)	(est. gpd)	(#)	(#)	(# or %)	(%)	(%)	(%)		(%)	(#)	(%)

Construction

(#)	Complaints/concerns received from public
(# and \$)	Fines collected
(# or %)	Tickets/Stop work orders issued
(# or %)	Site inspections completed
(%)	Estimated percentage of construction starts adequately regulated for erosion and sediment control
(#)	Number of construction starts (>1-acre)

Post-Development Stormwater Management

(697)	Laumance rolling or anomine and rolling god
(# or %)	Site inspections completed
,	construction stormwater control
(%)	Estimated percentage of development/redevelopment projects adequately regulated for post-

Operations and Maintenance

(#) (LF or mi.) (lbs. or tons) (\$)	Total number of structures cleaned Storm drain cleaned Oty. of screenings/debris removed from storm sewer infrastructure Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) Cost of screenings disposal
(times/yr)	Average frequency of catch basin cleaning (non-commercial/non-arterial streets)
(i)	

	Vacuum street sweepers specified in contracts (y/n)	Vacuum street sweepers purchased/leased (#)	Cost of sweepings disposal (\$)	Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) (location	Qty. of sand/debris collected by sweeping (lbs. or tons	Average frequency of street sweeping (commercial/arterial or other critical streets) (times/y
)	ons)	

	Pesticides	 Herbicides 	 Fertilizers 	Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)
	(lbs. or %)	(lbs. or %)	(lbs. or %)	

	Storage shed(s) in design or under construction (y/n)	Salt pile(s) covered in storage shed(s) (y/n)	Estimated net reduction in typical year salt application (lbs. or %)	Automatic or Zero-velocity spreaders used (y/n)	Manual control spreaders used (y/n)	Pre-wetting techniques utilized (y/n)	% Sand	% KCl	% Kac	% CMA	% MgCl ₂	% CaCl ₂	Anti-/De-Icing products and ratios % NaCl